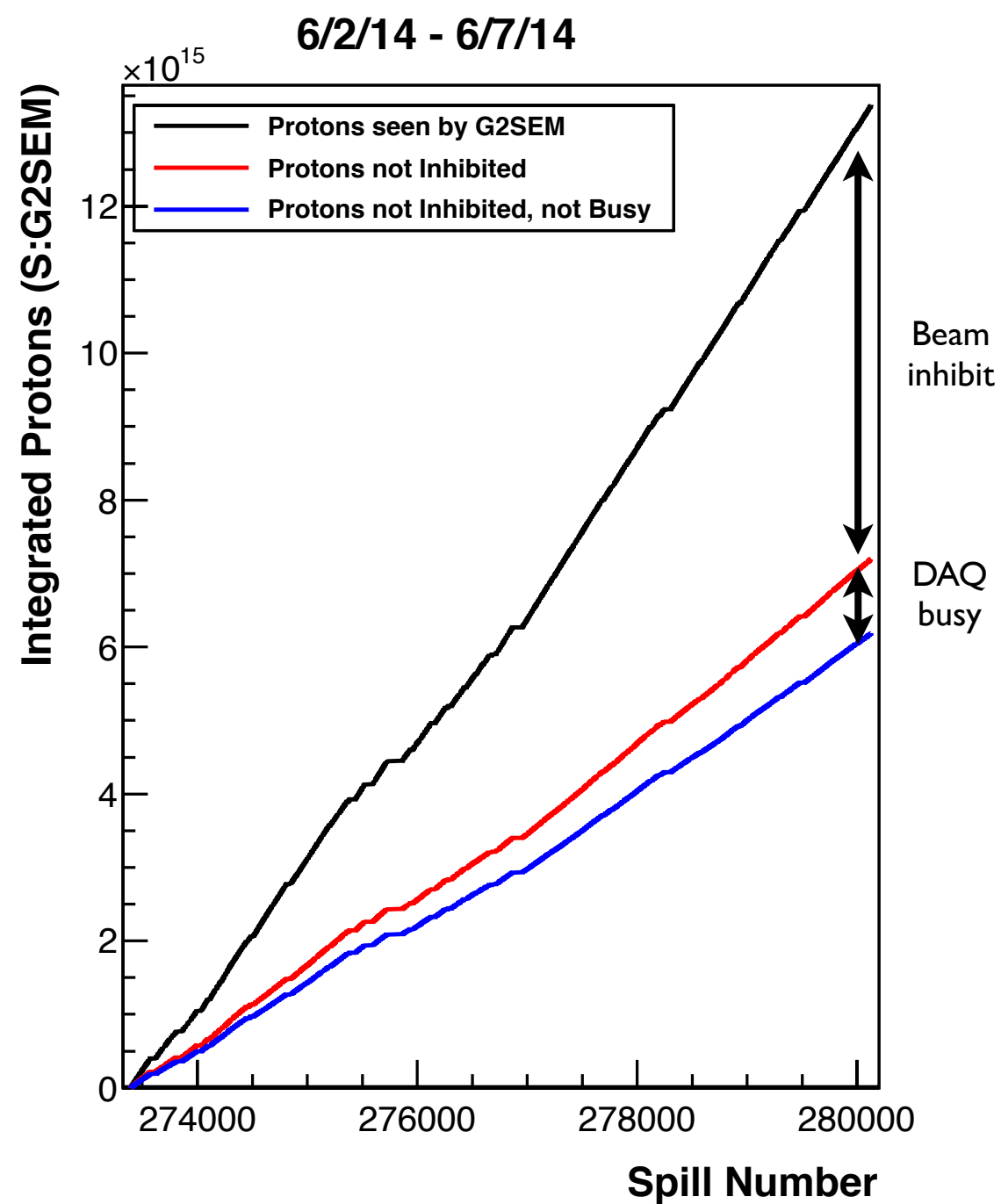
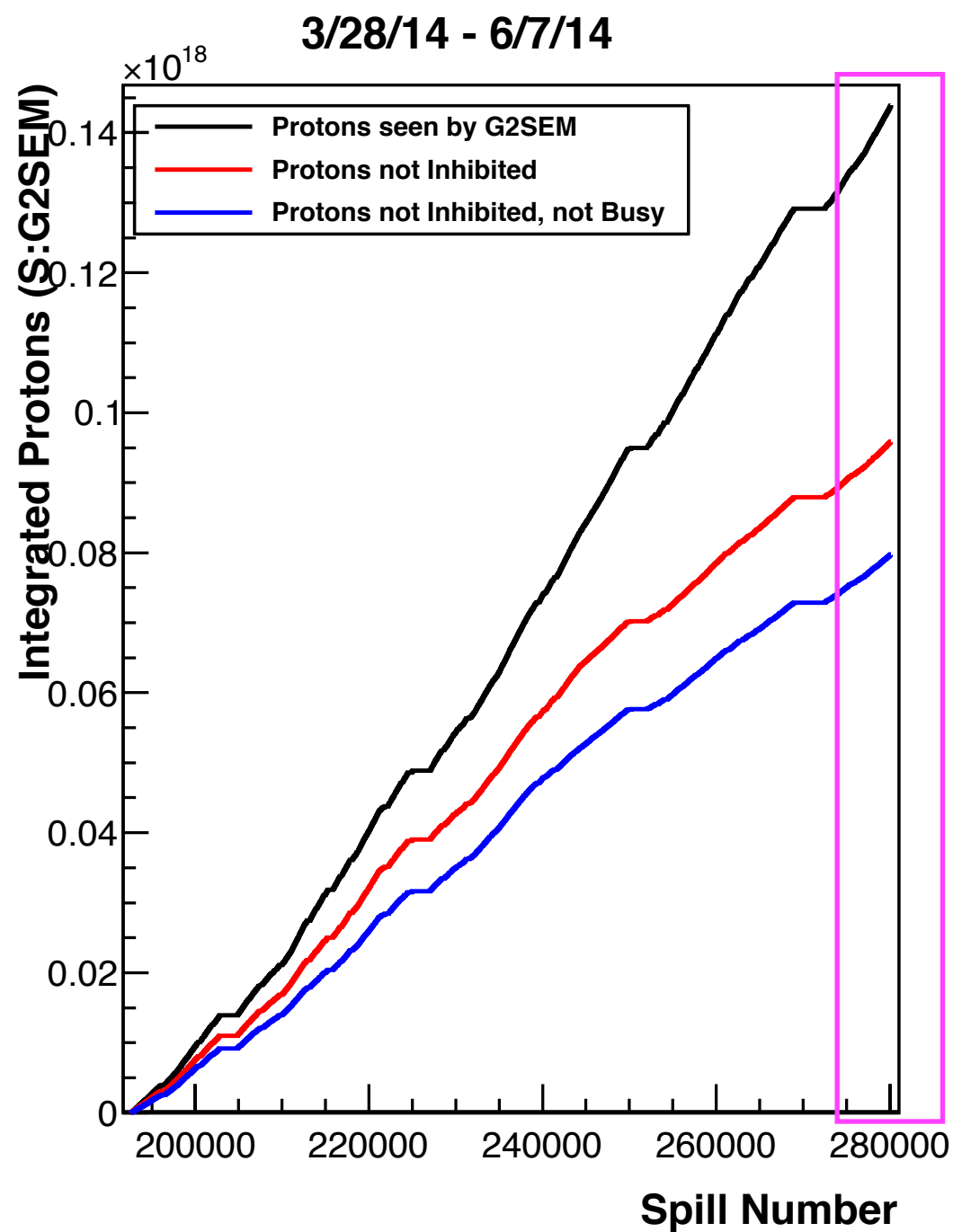


# E906/SeaQuest AEM report

Kun Liu  
June 9, 2014

# Beam usage



# Downtime

- Daily LCW bleeding: 15~20 minutes everyday
  - traced to a bad seal on pump 2 at NS2
  - daily bleeding time dropped to 15-20 minutes. Huge improvement!
- Loss of MIRF: ~4 hours
  - on Wednesday a scheduled power maintenance of MS2 killed the MIRF signal which we use to sync the trigger
- Power outage at 2AM Saturday: ~28 hours
  - the power bump brought down almost all the sub-systems
  - 75% of the power supplies and ~25% of the readout electronics of our drift chambers are fried
  - after the beam came back, it took ~20 hours for our chamber experts to recover everything

# Miscellaneous

- Tungsten target included in target cycle
  - once every 22 spills
  - radiation level up by ~30%
- Faulty analog readout from VESDA system
  - flammable gas reading >60%
  - a power cycle got it back to 0, radiation damage?

